

03040207-040
(Winyah Bay)

General Description

Watershed 03040207-040 formerly 03040207-050) is located in Georgetown County and consists primarily of **Winyah Bay** and its tributaries. The watershed occupies 70,177 acres of the Coastal Zone region of South Carolina. The predominant soil types consist of an association of the Bohicket-Leon-Lynn Haven series. The erodibility of the soil (K) averages 0.10; the slope of the terrain averages 1%, with a range of 0-2%. Land use/land cover in the watershed includes: 34.4% forested land, 24.5% nonforested wetland, 23.2% water, 6.1% forested wetland, 5.2% urban land, 4.8% scrub/shrub land, 1.7% barren land, and 0.1% agricultural land.

The Sampit River Watershed, the Pee Dee River Watershed, and the Waccamaw River Watershed all join to form Winyah Bay, which is classified SB and drains into the Atlantic Ocean. White Oak Bay drains into the upper portion of Winyah Bay, and Kinloch Creek and Mosquito Creek (Lagoon Creek) drain into both Winyah Bay and North Santee Bay (in Santee River Basin), all classified SB. Esterville Minim Creek Canal (SA) runs along Cat Island and connects the North Santee Bay to Winyah Bay through the Western Channel (SB). Mud Bay (SB) drains into Winyah Bay and accepts drainage from No Mans Friend Creek (SB), Sign Creek (SB), Oyster Bay (SB), Jones Creek (Dividing Creek-SB, Nancy Creek-SB, Little Jones Creek-SFH, Haulover Creek-SB, Boor Creek-ORW, Noble Slough-SB), and Cotton Patch Creek (SB). Jones Creek (SB, SFH, ORW) connects Mud Bay to North Inlet (ORW). Streams draining into Jones Creek above Oyster Bay include Wood Creek (Double Prong Creek, Little Wood Creek), Duck Creek, Perry Creek, and Bobs Garden Creek, all classified ORW. Town Creek (SA, SFH, ORW) drains to Mud Bay through Oyster Bay and to North Inlet. Town Creek accepts drainage from Sawmill Creek (SB), Cutoff Creek (SFH), and Mud Creek (SFH), together with Clambank Creek, Bread and Butter Creek, and Old Man Creek (Bly Creek, Sea Creek Bay, Bass Hole Creek, Bass Hole Bay), which are all classified ORW. Sixty Bass Creek (SFH, ORW) connects Town Creek to North Inlet, and Debidue Creek (SFH, ORW) accepts drainage from Cooks Creek (ORW) and joins Town Creek in North Inlet. Pawleys Island Creek (SFH) drains out of Pawleys Inlet (SFH) and also out of Midway Inlet (Clubhouse Creek) at the top of the watershed. There are a total of 86.8 acres of lake waters and 16,609.3 acres of estuarine areas in this watershed.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
(MD-080)	P	SB	WINYAH BAY @ MARKER 92 AT MOUTH OF PEE DEE AND WACCAMAW RIVERS

Winyah Bay (MD-080) - This station is located in 03040201-170, but also reflects a mixing area of waters including Winyah Bay and the Waccamaw River (03040206-150). Aquatic life uses are fully supported at **MD-080**; however, there is a significant decreasing trend in dissolved oxygen. Significant decreasing trends in five-day biochemical oxygen demand and total suspended solids suggest improving conditions for

these parameters. Recreational uses are fully supported and a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter.

Yawkey Wildlife Center - The rice fields of the wildlife center were treated in 1994, 1995, and again in 1997 with aquatic herbicides to reduce the spread of *Phragmites* and improve access for waterfowl management and hunting activities.

Baruch Waterway - The Baruch Waterway was treated in 1999 with aquatic herbicides to reduce the spread of *Phragmites* to the greatest extent possible.

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME FACILITY TYPE	PERMIT # STATUS
K061 BAGHOUSE DUST WASTE PILE -----	----- CLOSED
GEORGETOWN COUNTY AIRPORT INDUSTRIAL	IWP-194 -----

Land Application Sites

LAND APPLICATION SYSTEM FACILITY NAME	ND# TYPE
SPRAYFIELD INLET POINT SOUTH, PHASE 3	ND0074616 DOMESTIC
SPRAYFIELD GCW&SA/DEBORDIEU COLONY	ND0065668 DOMESTIC

Water Supply

Portions of this watershed fall within the Waccamaw Capacity Use Area and large groundwater uses must be reported (see Capacity Use Program p.23).

Growth Potential

There is an overall low potential for growth in this watershed, which contains the Town of Pawleys Island and a portion of the City of Georgetown. The northern most area is expected to experience a high population increase, a medium increase is expected along the south side of Winyah Bay and the remaining area is only expected to experience a low increase due to lands protected from development by land trusts. Water and sewer infrastructure is located in the Georgetown area and in several large developments on the Waccamaw Neck. The watershed is largely rural with residential uses, timberlands, and large tracts of protected land.